



ecology and environment, inc.

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

MEMORANDUM

DATE: August 9, 1985

TO: John Osborn, FIT RPO, USEPA, Region X

FROM: Lynn Guilford, Chemist, E&E, Seattle
Andrew Hafferty, Senior Chemist, E&E, Seattle

SUBJ: QA of Case 4201/1572J (2,4-D and 2,4,5-TP)
Green Acres Landfill WA0254

THRU: Dave Buecker, FIT RPM, E&E, Seattle

REF: TDD-8507-01

CC: Gerald Muth, EPA, Manchester
Harold Takenaka, DPO, EPA, Region IX
John Roland, E&E, Seattle

The Quality Assurance review of seven samples, Case 4201/1572J, collected at Greenacres Landfill has been completed. Seven water samples were analyzed by California Analytical Laboratories, Inc. of West Sacramento, California using SAS for 2,4-D and 2,4,5-TP. The samples were numbered:

J1290	J1294
J1291	J1296
J1292	J1297
J1293	

Data Qualifications

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in IFB WA84J091.

- 1) Timeliness - Acceptable
- 2) Blanks - Acceptable

USEPA SF



1624814

3) Matrix Spike and Matrix Spike Duplicates

The 2,4-D percentage recoveries were high but acceptable.

<u>Sample</u>	<u>Compound</u>	<u>% Recovery</u>
J1290 (MSD)	2,4-D	150
J1297 (MS)	2,4-D	160

4) Samples - Acceptable

5) Detection Limits

Detection limits of 0.05 ug/l for 2,4-D and 2,4,5-TP were requested.

6) Laboratory Contact

The laboratory was contacted on July 25, 1985 regarding the method of analysis and detection limits. Please see telephone record log attached.

Data Use

This data is ACCEPTABLE for use.

Data Qualifiers

- U - The material was analyzed for, but was not detected. The associated numerical value is the estimated sample quantitation limit.
- J - The associated numerical value is an estimated quantity because quality control criteria were not met.
- R - Quality Control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.
- Q - No analytical result.
- N - Presumptive evidence of presence of material (tentative identification).
- E - The detection limit was elevated as a result of matrix interference.

SAS 4201/1572J*

2,4-D and 2,4,5-TP

<u>EPA ID</u>	<u>2,4-D (ug/l)</u>	<u>2,4,5-TP (ug/l)</u>
J1290	0.05U	0.05U
J1291	0.05U	0.05U
J1292	2.5	0.58
J1293	0.05U	0.05U
J1294	0.5U	0.05U
J1296	0.5U	0.5UE
J1297	0.5U	0.5UE

*California Analytical Laboratories, Inc.